Claims

In the claims:

1	1. A method comprising:
2	receiving an incoming call at an automated attendant port;
3	receiving a call handle associated with the incoming call;
4	applying the call handle to retrieve caller information associated with the call
5	handle; and
6	using the retrieved caller information to handle the call if caller information
7	associated with the call handle is found.
1	2. The method of claim 1, wherein receiving a call handle comprises
2	receiving a tone sequence at the automated attendant port, decoding the tone sequence,
3	and deriving the call handle from the decoded tone sequence.
1	3. The method of claim 1, wherein the tone sequence is a DTMF tone
2	sequence transmitted to the port over the same transmission line as the incoming call.
1	4. The method of claim 1, wherein receiving a call handle comprises
2	receiving a call handle message through a digital interface.

- 5. The method of claim 1, wherein the digital interface comprises a digital backplane connection to a switch from which the incoming call was received.
- 1 6. The method of claim 1, wherein receiving an incoming call comprises
 2 receiving an incoming call from a switch and wherein receiving a call handle comprises
 3 receiving a call handle from the switch.

1	7. The method of claim 1, wherein using the retrieved caller information
2	comprises providing audio information in a language previously selected by the caller.
1	8. The method of claim 1, if no caller information associated with the call
2	handle is found, further comprising:
3	requesting caller information from the caller;
4	storing received caller information in association with the call handle; and
5	using the received caller information to handle the call.
1	9. The method of claim 1, further comprising receiving an indication of
2	whether the call is a forwarded call and wherein retrieving caller information and using
3	the retrieved information are performed only if the call is a forwarded call.
1	10. The method of claim 9, if the call is not a forwarded call, further
2	comprising:
3	requesting caller information from the caller;
4	storing received caller information in association with the call handle; and
5	using the received caller information to handle the call.
1	11. A machine-readable medium having stored thereon data representing
2	instructions which, when executed by a machine, cause the machine to perform
3	operations comprising:
4	receiving an incoming call at an automated attendant port;
5	receiving a call handle associated with the incoming call:

6	applying the call handle to retrieve caller information associated with the call
7	handle; and
8	using the retrieved caller information to handle the call if caller information
9	associated with the call handle is found.
1	12. The medium of claim 11, wherein if no caller information associated with
2	the call handle is found, the instructions, when executed by the machine, cause the
3	machine to perform further operations comprising:
4	requesting caller information from the caller;
5	storing received caller information in association with the call handle; and
6	using the received caller information to handle the call.
1	13. The method of claim 11, wherein if the call is not a forwarded call, the
2	instructions, when executed by the machine, cause the machine to perform further
3	operations comprising:
4	requesting caller information from the caller;
5	storing received caller information in association with the call handle; and
6	using the received caller information to handle the call.
1	14. An apparatus comprising:
2	an automated attendant port to receive an incoming call;
3	an automated attendant port to receive a call handle associated with the incoming
4	call;
5	a memory containing caller information associated with call handles; and
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6	a processor to apply the call handle to retrieve caller information and use the
7	retrieved caller information to handle the call if caller information associated with the call
8	handle is found.
1	15. The apparatus of claim 14, wherein the automated attendant port to receive
2	the call handle comprises a digital interface.
1	16. The apparatus of claim 15, wherein the digital interface comprises a digital
2	backplane connection to a switch from which the incoming call was received.
1	17. A method comprising:
2	receiving an incoming call;
3	generating a call handle for the incoming call;
4	routing the incoming call to a port of a call handling system;
5	sending the call handle to the call handling system in association with the routed
6	call;
7	receiving a transfer of the routed call from the call handling system;
8	re-routing the incoming call back to a port of the call handling system; and
9	sending the call handle to the call handling system in association with the re-
10	routed call.
1	18. The method of claim 17, wherein sending the call handle comprises
2	deriving a tone sequence for the identification, coding the tone sequence into tones and

sending the tone sequence to the call handling system port.

1	19. The method of claim 17, wherein the tone sequence is a DTMF tone
2	sequence transmitted to the call handling system port over the same transmission line as
3	the incoming call.
1	20. The method of claim 17, wherein sending the call handle comprises
2	sending an identification message through a digital interface.
1	21. The method of claim 17, wherein the digital interface comprises a digital
2	backplane connection to the call handling system.
1	22. A machine-readable medium having stored thereon data representing
2	instructions which, when executed by a machine, cause the machine to perform
3	operations comprising:
4	receiving an incoming call;
5	generating a call handle for the incoming call;
6	routing the incoming call to a port of a call handling system;
7	sending the call handle to the call handling system in association with the routed
8	call;
9	receiving a transfer of the routed call from the call handling system;
10	re-routing the incoming call back to a port of the call handling system; and
11	sending the call handle to the call handling system in association with the re-
12	routed call.

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handle comprise instructions which, when executed by the machine, cause the machine to

The medium of claim 22, wherein the instructions for sending the call

- perform further operations comprising sending an identification message through a digital interface.

 The medium of claim 23, wherein the digital interface comprises a digital backplane connection to the call handling system.

 A method comprising:
- 2 a port to receive an incoming call;
- a call handle generator to generate a call handle for the incoming call;
- a switching network to route the incoming call to a port of a call handling system;
- 5 and
- an interface to send the call handle to the call handling system in association with
- 7 the routed call.
- 1 26. The apparatus of claim 25, wherein the interface comprises a digital
- 2 interface.
- 1 27. The apparatus of claim 26, wherein the digital interface comprises a digital
- 2 backplane connection to the call handling system.